To: Brett.Fishwild@CH2M.com[Brett.Fishwild@CH2M.com]; Loney, Adam[aloney@craworld.com]
Cc: Madelyn.Smith@epa.state.oh.us[Madelyn.Smith@epa.state.oh.us]; Patterson, Leslie[patterson.leslie@epa.gov]
From: Chan, Valerie
Sent: Thur 6/13/2013 2:44:36 PM
Subject: RE: South Dayton Dump - Phase 1A, location of deep borings
OU1 Phase 1A Sampling Requirements-061313.xlsx

Hello,

The OU1 Phase 1A spreadsheet has been revised to modify the location of four deep boreholes, following consideration of the DQO.

The CRA field techs have been informed that BH1 is no longer a deep location, and BH3 has been revised to be a deep borehole location.

Thank you,

Valerie

Valerie Chan, P. Eng.

Conestoga-Rovers & Associates (CRA)

651 Colby Drive

Waterloo, ON N2V 1C2

Phone: 519.884.0510

Fax: 519.884.0525

www.CRAworld.com

From: Brett.Fishwild@CH2M.com [mailto:Brett.Fishwild@CH2M.com]
Sent: Wednesday, June 12, 2013 5:00 PM
To: Chan, Valerie; Loney, Adam
Cc: Madelyn.Smith@epa.state.oh.us; Patterson.Leslie@epamail.epa.gov
Subject: RE: South Dayton Dump - Phase 1A, location of deep borings

Hi Valerie –

Thank you for the information. We would just ask the question if it is possible to satisfy the DQO of investigating the extent of the discontinuous till while also satisfying general work plan comment of spatially distributing the boreholes that go to depth. Otherwise you may end up simply verifying existing information and leaving data gaps that could be filled during this current field event.

We simply identify this as a question to consider.

Thank you.

From: Chan, Valerie [mailto:vchan@craworld.com]
Sent: Wednesday, June 12, 2013 4:24 PM
To: Fishwild, Brett/DAY; Loney, Adam
Cc: Madelyn.Smith@epa.state.oh.us; 'Patterson.Leslie@epamail.epa.gov'
Subject: FW: South Dayton Dump - Phase 1A, location of deep borings

Hello Brett,

In accordance with the Work Plan, the deep borings were chosen based on a spatial distribution. We recognize that some of the specified deeper boreholes (1, 29, 64, and 80) are close to previous investigative locations where we have stratigraphy information to depth (40 – 100 ft bgs). We are open to suggestions on alternate deep boreholes.

If there is chemical impacts (i.e. NAPL, elevated PID readings, visible staining, etc.) at till shallower than 60 ft, the borehole will cease in order to prevent any drawdown of contamination.

Thank you,

Valerie

Valerie Chan, P. Eng.

Conestoga-Rovers & Associates (CRA)

651 Colby Drive

Waterloo, ON N2V 1C2

Phone: 519.884.0510

Fax: 519.884.0525

www.CRAworld.com

From: Brett.Fishwild@CH2M.com [mailto:Brett.Fishwild@CH2M.com]
Sent: Wednesday, June 12, 2013 1:42 PM
To: Chan, Valerie; Loney, Adam
Cc: Madelyn.Smith@epa.state.oh.us; patterson.leslie@epa.gov
Subject: South Dayton Dump - Phase 1A, location of deep borings

Hi Valerie –

After speaking with the field crew yesterday on the chosen locations for the deep soil borings (the 60-footers) and their direction in how to drill them, CH2M HILL wanted to follow-up with two questions:

1) Were the deep borings chosen based on the current set of geologic cross-sections, such that you go deep in locations where you don't already have lithology information to depth?

2) And will there be any cases where if you hit what you believe is the till shallower than 60 feet and have chemical impacts – that you would not penetrate the suspected till layer in order to prevent preferential pathways to deeper water?

Thank you.

Brett A. Fishwild

Associate Project Manager

Geologist

CH2M HILL

1 South Main Street

Suite 1100

Dayton, OH 45402

Direct 937.220.2955

eFax 937.234.6157

Mobile 515.991.2404

www.ch2mhill.com